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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,962	02/27/2004	Federico Uslenghi	60246-340	9175
	7590 04/12/2007 SKEY & OLDS, P.C. PLE ROAD		EXAMINER MAYEKAR, KISHOR	
SUITE 350 BIRMINGHAM, MI 48009			ART UNIT	PAPER NUMBER
			1753	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
	10/789,962	USLENGHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kishor Mayekar	1753				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	th the correspondence address				
• •	DIVIQUET TO EVDIDE 2 M/	ONITU(S) OR THIRTY (30) DAVS				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	ODATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re n. riod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	CATION. sply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 1	<u> 2 January 2007</u> .					
2a) This action is FINAL . 2b) ⊠						
3) Since this application is in condition for allo	owance except for formal matte	ers, prosecution as to the merits is				
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-22</u> is/are pending in the applica	tion.					
4a) Of the above claim(s) is/are with						
5) Claim(s) is/are allowed.		·				
6) Claim(s) 1-4, 9-12 and 15-22 is/are rejecte	6) Claim(s) <u>1-4, 9-12 and 15-22</u> is/are rejected.					
7) Claim(s) $\underline{5-8,13}$ and $\underline{14}$ is/are objected to.						
8) Claim(s) are subject to restriction ar	nd/or election requirement.					
Application Papers						
9) The specification is objected to by the Exan	niner.					
10) The drawing(s) filed on is/are: a)	accepted or b) objected to b	by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the co	rrection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority docum	ents have been received.					
2. Certified copies of the priority docum	nents have been received in Ap	oplication No				
3. Copies of the certified copies of the p	oriority documents have been i	received in this National Stage				
application from the International Bu						
* See the attached detailed Office action for a	list of the certified copies not r	received.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	· —	ummary (PTO-413))/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08)	formal Patent Application					
Paper No(s)/Mail Date	6)	<u>_</u> .				

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DETAILED ACTION

1. Applicant's arguments with respect to claims 1-22 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC \$ 102 and \$ 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore,

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the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the

amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 15 and 17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by

Golstein (US 4,210,429), a reference cited in the last Office action. Golstein's invention

is directed to an air purifier for removing irritating or harmful impurities from the air and

a method thereof. Golstein discloses that the method comprises the steps of flowing air

through a filtering device; sensing the filtering device; illuminating an UV light source if

the step of sensing detects the filtering device; and deactivating the UV light source if

the step of sensing does not detect the filtering device (col. 5, lines 63-68).

5. Claims 15 and 17 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by

Gibson (US 6,869,468 B2), a reference cited in the last Office action. Gibson's invention

is directed to an air treatment apparatus and a method thereof. Golstein discloses that

the method comprises the steps of flowing air through a filtering device; sensing the

filtering device; illuminating an UV light source if the step of sensing detects the filtering

device; and deactivating the UV light source if the step of sensing does not detect the

filtering device (col. 3, line 65 through col. 4, line 40 and col. 2, lines 57-65).

6. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Golstein '429

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in view of JP 2000-15762 A. The difference between Golstein and the above claim is the provision that the filtering device is monolith having a titanium dioxide coating. JP '621 shows in an air cleaner the provision of the recited filtering device (see abstract). The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Golstein as shown by JP '762 because this would further cleaning the treated air by the sterilizing and the photocatalyzing.

- 7. Claims 1-4 and 9-11 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Reisfeld (US 6,884,399 B2) in view of either Golstein '429 or Gibson '468, for reasons as of record.
- 8. Claims 12 and 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reisfeld (US 6,884,399 B2) in view of either Golstein '429 or Gibson '468. The further difference between the references as applied above and the instant claims are the provision that the inner compartment houses a particle filter and the switch features.

As to the first difference, since Reisfeld discloses the provision of a particle filter upstream to and in conjunction with the monoliths, the provision that the particle filter is part of the inner compartment as making elements integral was held to have been obvious, In re Wolfe 116 USPQ 443.

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As to the latter, since Golstein shows that the switch is of conventional design and

includes a leaf or contact which is pressed to close the switch, and in electrical

communication with the UV light sources (col. 5, lines 5-12 and Fig. 6), or since Gibson also

shows that the switch is a microswitch or the like, and in electrical communication with the

UV light (col. 2, lines 57-65), it appears that the switch of Golstein or Gibson is of the

features as claimed. Further, the selection of known equivalent switch for the detecting

of the filtering device would be within the level of ordinary skill in the art.

Allowable Subject Matter

9. Claims 5 and 13 and their depending clams 6-8 and 14 are objected to as being

dependent upon a rejected base claim, but would be allowable if rewritten in independent

form including all of the limitations of the base claim and any intervening claims.

10. The following is a statement of reasons for the indication of allowable subject

matter: Because the prior art references do not disclose in an indoor air quality module

the provision of the recited first end of the inner compartment being pivotally attached to

the outer compartment and pivotal between the first position and the second position in

combination with other recited structured as claimed in claims 5 and 13.

Response to Arguments

11. Applicant's arguments filed 12 January 2007 have been fully considered but they

are not persuasive.

Applicant argues that there is no prima facie case of obviousness because of the proposed combination cannot be made as adding the switches of Golstein or Gibson to the Reisfeld arrangement would be useless or redundant at best and as the fan control already adequately provides for controlling the UV lamp. Reisfeld's fan control controls the UV lamps even without the filtering device and the switches of Golstein or Gibson are needed in for providing safety interlock switches with the air purifier when the filtering device is withdrawn from the module.

As to the argument that as Reisfeld's fan coil unit is not disposed within interior of the building such as where occupants would reside, there is no danger of unwanted exposure to UV light with regard to Reisfeld arrangement, since Reisfeld discloses that the air purifier can be used in a fan coil unit or a duct (col. 6, lines 6-8) and since Reisfeld's fan control controls the UV lamps even without the filtering device, the switches of Golstein or Gibson are needed in for providing safety interlock switches with the air purifier when the filtering device is withdrawn from the module. The air purifier will not work properly if there is no filtering device in place.

Conclusion

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12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-

1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

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Representative or access to the automated information system, call 800-786-9199 (IN

USA OR CANADA) or 571-272-1000.

Kishor Mayekar

Primary Examiner

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